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APPLICANT : TOSOH CORP;

INVENTOR : YOSHIDA SETSUO;

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TITLE : MANGANESE OXIDE, ITS PRODUCTION AND USE THEREOF

ABSTRACT : PROBLEM TO BE SOLVED: To produce Mn_3O_4 , hardly contaminated with impurities and having a large grain diameter and high filling properties, to provide a method for producing the Mn_3O_4 and further to produce a lithium manganese compound oxide, available by using the resultant Mn_3O_4 and having a large grain diameter and high filling properties.

SOLUTION: This method for producing Mn_3O_4 having a BET specific surface area within the range of $3\text{-}18\text{m}^2/\text{g}$ comprises reacting metallic manganese in an acidic solution at $\text{pH}\leq 5.0$. The resultant Mn_3O_4 is then mixed with a lithium salt and the prepared mixture is subsequently baked to produce a lithium manganese compound oxide having a specific surface area within the range of $1\text{-}3\text{m}^2/\text{g}$.

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